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The flora of Ladak, Western Tibet. II. List of Ladak plants

RALPH RANGLES STEWART

The terminology employed in the present list does not always agree with the most advanced usage in North America because of the desire to make it conform to that in Hooker's Flora of British India (22). Hooker's work is likely to be used in India for years to come, and Kew standards rather than American will be followed. Where Hooker's name has been changed it is given as a synonym in parentheses.

The identifications in most cases are my own, though I have had a great deal of assistance from members of the staff at the New York Botanical Garden and from Mr. Hutchinson of Kew, who kindly determined a number of difficult specimens.

As my plants were all collected between July 17th and August 21st, it is hardly necessary to print the date of each specimen and as Hooker is careful to give altitudes, only those that differ from his or those that seem specially noteworthy are given. A list of the heights of the localities mentioned is appended, however, so that the approximate height at which individual plants grew can be found out if desired.

The following abbreviations are used: FBI, Hooker's Flora of British India (22); Hend., Henderson and Hume's Lahore to Yarkand (21); J.L.S., J. L. Stewart's Punjab Plants (34), etc.; R.R.S., R. R. Stewart. Species marked with an asterisk (*) were not found by me.

FUNARIACEAE

FUNARIA SUBMICROSTOMA C. Müll. Fotu La.

BRYACEAE

BRYUM TIBETICUM Mitt.† Sapi La.

POLYPODIACEAE

CYSTOPTERIS FRAGILIS (L.) Bernh. Common throughout.

† A second undetermined species of *Bryum* was collected at Yarungshan.

EQUISETACEAE

- EQUISETUM ARVENSE L.* Dras (Hend.).
 " DIFFUSUM Don. Khalotse to Yuru.
 " RAMOSISSIMUM Desf. Spitug. Baker (1) says this is equally *E. elongatum* Willd. and *E. ramosum* Schk.; Henderson and Hume call their Indus Valley specimens *E. ramosum*.

PINACEAE

- JUNIPERUS MACROPODA Boiss. Not rare; specimens from Himis Shukpa grove the best.
 JUNIPERUS WALLICHIANA Hook. f. (*J. Pseudo-Sabina* Fisch. & Mey.). "Western Tibet" (Brandis, FBI).
 JUNIPERUS COMMUNIS L.* Dras Valley (Hend.).

GNETACEAE

- EPHEDRA GERARDIANA Wall. Common, very variable in height.
 " INTERMEDIA Schrenk & C. A. Mey.* Zanskar (Brandis, FBI).

NAIADACEAE

- POTAMOGETON PECTINATUS L. Common.
 " PERFOLIATUS L. Common.
 ZANNICHELLIA PALUSTRIS L.* "Western Tibet" (FBI).

JUNCAGINACEAE

- TRIGLOCHIN MARITIMA L. Common.
 " PALUSTRIS L. Common.

GRAMINEAE

- ERIANTHUS RAVENNAE Beauv.* "Western Tibet" (FBI); probably from Skardo.
 ANDROPOGON ISCHAEMUM L. Common.
 PASPALUM AMBIGUUM DC.* "Western Tibet" (FBI).
 PANICUM MILIACEUM L. Suru, cultivated.
 SETARIA VIRIDIS (L.) Beauv. Leh, Shergol.
 PENNISETUM LANATUM Klotzsch.* "Western Tibet" (FBI); probably not from Ladak.
 PENNISETUM FLACCIDUM Griseb. Very common.
 STIPA BARBATA Desf. (under *S. orientalis* Trin. in FBI). Tralse, Leh, Himis Shupka, Tsokar Lake.
 STIPA BASIPLUMOSA Munro.* Nubra and Lanak La (FBI).
 " PURPUREA Griseb.* Lake Rukshan (FBI).
 " PURPUREA LONGE-ARISTATA.* "Western Tibet" (FBI).
 " MONGOLICA Turcz.* Ladak (FBI).
 " SIBIRICA Lam.* Dras (Hend.).
 " HOOKERI Stapf.* Nubra (FBI).
 " SPLENDENS Trin. Spituk, Himis Shupka.
 ORYZOPSIS LATERALIS Stapf.* "Western Tibet" (FBI).
 " MUNROI Stapf.* Ladak, Nubra, Zanskar (FBI).
 MILIUM EFFUSUM L.*
 HELEOCHLOA SCHOENOIDES (L.) Host. "Western Tibet" (FBI).
 PHLEUM ALPINUM L. Suru to Sirimarg.

- ALOPECURUS HIMALAICUS Hook. Rusi La.
 " PRATENSIS L.* Zoji La (Hend.).
 POLYPOGON MONSPELIENSIS Desf. Saspola.
 AGROSTIS ALBA L. Common.
 " CANINA L. Ladak (Hend.), "Western Tibet" (FBI).
 CALAMAGROSTIS LITTOREA DC. Common.
 " STOLICZKAI Hook.* Zaskar on Pensi La (FBI).
 DEVEUXIA COMPACTA Munro.* Nubra (FBI).
 " SCABRESCENS Munro.* Leh (Meebold).
 AIRA CARYOPHYLLEA L.* "Western Tibet" (FBI).
 DESCHAMPSIA CAESPITOSA (L.) Beauv. Rogshin.
 " KOELERIOIDES Regel.* Dras (FBI).
 TRISETUM SPICATUM (L.) Richter (*Avena subspicata* Clairv. in FBI). Khardong
 La, Rusi La.
 AVENA FATUA L. Field work in Ladak.
 " SATIVA L. Himis Shukpa, not cultivated.
 DANTHONIA KASHMIRIANA Duthie.* "Western Tibet" (FBI).
 CHLORIS VIRGATA Sw.* "Western Tibet" (FBI); doubtfully in Ladak.
 PHRAGMITES COMMUNIS Trin. Spituk, Himis Shukpa.
 ERAGROSTIS MINOR Host. Leh.
 KOELERIA CRISTATA Pers.* Dras Valley (Hend.), "Western Tibet" (FBI).
 " ARGENTEA Griseb.* "Western Tibet" (FBI).
 CATABROSA AQUATICA ANGUSTA Stapf.* Lanak La (FBI), Leh (Meebold).
 " THOMSONI Hook.* Nubra (FBI).
 MELICA CUPANI Guss.* (*M. ciliata* L. of Hend. and of Duthie). Dras (Hend.),
 "Western Tibet" (FBI).
 BRIZA MEDIA L.* "Western Tibet" (FBI).
 DACTYLIS GLOMERATA L. Dras.
 SCHIZMUS MARGINATUS Beauv.* Nubra, Dras (FBI).
 POA PERSICA Trin.* "Western Tibet" (FBI).
 " BULBOSA L.* Zaskar (FBI).
 " ALPINA L.* Ladak (Hend.), "Western Tibet" (FBI).
 " TIBETICA Munro.* Ladak, saline plains (FBI).
 " PRATENSIS L. Rogshin, Nyemo?
 " ATTENUATA Trin. Khardong La.
 " NEMORALIS LIGULATA Stapf. Rokshin, Suru, Yarungshan.
 " TREMULA Stapf.* Ladak (FBI).
 " ANNUA L. Yarungshan.
 GLYCERIA DISTANS Wahlenb.* "Western Tibet" (FBI).
 " THOMSONI Stapf.* Rupshu (FBI), Leh (Meebold).
 " POAEOIDES Stapf.* Rupshu (FBI).
 FESTUCA NITIDULA Stapf.* Nubra. (FBI).
 " ALTAICA Trin.* Dras. (FBI).
 " RUBRA L. Rogshin.
 " SIBIRICA Hack.* Ladak. (FBI).
 " MYUROS L.* "Western Tibet" (FBI).
 BROMUS CRINITUS Boiss. & Hohen. Rachogpa.
 " TECTORUM L. Namika La, Timisgam.
 " PATULUS Mert. & Koch.* Ladak (Hend.).

BROMUS OXYODON Schrenk.* Dras, Zaskar (FBI).

" MACROSTACHYS Desf. Rupshu.

" BARBATUS Beauv. Tsokar Lake; common in Indus Valley.

DUTHIEA BROMOIDES Haeckel.* "Western Tibet" (FBI).

LOLIUM PERENNE L.* "Western Tibet" (FBI).

AGROPYRON LONGE-ARISTATUM Boiss. Khardong.

" JACQUEMONTII Hook.* Nubra (FBI).

" REPENS (L.) Beauv.* Ladak (FBI).

" DENTATUM ELATUM Hook. f.* Dras. (FBI).

TRITICUM VULGARE L. Cultivated in Ladak.

HORDEUM VULGARE L. Cultivated widely to about 14,000 ft. alt.

" NODOSUM L. (*H. secalinum* Schreb. in FBI). Common.

ELYMUS SIBIRICUS L. Common.

" DAHURICUS Turcz. Common.

" DASYSTACHYS Trin. Common.

CYPERACEAE

SCIRPUS PAUCIFLORUS Lightf.* "Western Tibet" (FBI).

" PUMILUS Vahl.* Skardo and Hanle (FBI).

" SETACEUS L. Timisgam.

" LACUSTRIS L.* Ladak (FBI).

" CARICIS Retz.* Leh (FBI).

" RUFUS (Huds.) Schrad. "Western Tibet" (FBI), Himis Shupka?

ELEOCHARIS PALUSTRIS (L.) R. & S. Khardong.

KOBRESIA PYGMAEA C. B. Clarke.* Ladak (FBI).

" CAPILLIFOLIA (Decne.) C. B. Clarke.* Kangi (Meebold).

" SCHOENOIDES (C. A. Mey.) Steud. Tsokar Lake, Khardong.

" ROYLEANA (Nees) Boeck.* "Western Tibet" (FBI).

" ROYLEANA KOKANICA (Regel) Kükenth.* Kangi (Meebold).

" MACRANTHA Boeck.* Nubra and Ladak (FBI).

CAREX INCURVA Lightf.* Kunawar and Kashmir to the Karakorum (FBI).

" STENOPHYLLA Wahlenb.* Piti and Kashmir to the Karakorum (FBI).

" RIGIDA Good. Khardong, Rusi La?

" VULGARIS Fries.* From Gilgit to Lahoul (FBI).

" MICROGLOCHIN Wahlenb.* Karakorum to Kunawar (FBI).

" PARVA Nees.* Deosai to Sikkim (FBI).

" NIVALIS Boott. Suru, Baralacha.

" MOORCROFTII Falc. Often common at high altitudes.

" USTULATA Wahlenb.* Karakorum to Sikkim (FBI).

" DILUTA M. Bieb.* Indus Valley (FBI).

" HAEMATOSTOMA Nees.* Nubra (FBI).

" OLIGOCARPA Schkuhr.* Dras to the Karakorum (FBI).

" HIRTELLA Drej.* Eastern Kangi (Meebold).

LEMNACEAE

LEMNA MINOR L.* "Western Tibet" (FBI).

JUNCACEAE

JUNCUS MEMBRANACEUS Royle. Rusi La, Dras, Sapi La, Suru to Sirimarg.

" SPHACELATUS Decne. Khardong La (immature and possibly *J. himalensis* Klotzsch.), East Kangi (Meebold).

- JUNCUS LAMPOCARPUS Ehr.* "Western Tibet" (FBI).
 " TRIGLUMIS L.* "Western Tibet" (FBI).
 " HIMALENSIS Klotzsch.* "Western Tibet" to Bhotan (FBI).
 " LEUCOMELAS Royle.* "Western Tibet" (FBI).

LILIACEAE

- EREMURUS HIMALAICUS Baker. Near Dras.
 GAGEA PERSICA Boiss. Kangi (Meebold).
 ALLIUM CEPA L. Cultivated.
 " SEMENOVII Regel.* Kangi (Meebold).
 " SCHOENOPRASUM L. Kangi (Meebold).
 " PLATYSPTHUM FALCATA Regel.* "Western Tibet" (FBI).
 " JACQUEMONTI Regel.* "Western Tibet" (FBI); probably southeast of Ladak.
 ALLIUM ODORUM L.* Indus Valley, Ladak (Hend.), "Western Tibet" (FBI).
 " GOVANIUM Wall.* Dras Valley (Hend).
 " OREOPRASUM Schrenk.* Zalung-Karpo Pass (FBI).
 " LORATUM Baker.*† "Western Tibet" (FBI).
 FRITILLARIA ROYLEI Hook. Zoji to Matayan.
 LLOYDIA SEROTINA Roxb. Ladak (Hend., FBI).
 POLYGONATUM VERTICILLATUM All.* Dras Valley (Hend.).

IRIDACEAE

- IRIS ENSATA Thunb. Common in the Indus Valley.
 " KAMAONENSIS Wall.* Dras (Duthie), Ladak (Hend., J.L.S.).

ORCHIDACEAE

- ORCHIS LATIFOLIA L. Zoji Matayan.
 HERMINIUM MONORCHIS R. Br. Himis Shupka.
 EPIPACTIS LATIFOLIA THOMSONI Hook. f.* "Western Tibet" (FBI).

SALICACEAE

- POPULUS ALBA L.* To 9,200 ft. alt. in Tibet (FBI).
 " EUPHRATICA Oliv.* Nubra along the Shayok (FBI).
 " CANDICANS Ait. Commonly cultivated in Ladak; especially fine specimens are in the commissioner's garden at Leh.
 POPULUS NIGRA ITALICA Du Roi. Commonly cultivated, especially in Leh.
 " CILIATA Wall.* Leh (Meebold).
 SALIX ALBA L.* Commonly cultivated.
 " ELEGANS Wall.* Dras Valley near Snow (Hend.).
 " SCLEROPHYLLA Anderss.* Dras (FBI).
 " FRAGILIS L.* Cultivated in "Western Tibet" (Brandis).
 " HASTATA L.* North side, Zoji (Hend., named *S. arbuscula?*), "Tibet" (FBI).
 " DAPHNOIDES Vill. Sapi River?, "Western Tibet" (FBI), Ladak (Hend.).
 " FLABELLARIIS Anderss.* Cultivated in Ladak (Brandis, Kangi (Meebold).
 " PYCNOSTACHYA Anderss.* Cultivated in Ladak (Brandis).
 " ANGUSTIFOLIA Willd. Cultivated at Khalotse (R.R.S.), Nubra and Shayuk (FBI).

† An undetermined species of *Allium*, close to *A. rubellum* Bieb., was collected at Suru.

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- SALIX DIVERGENS* Anders.* Zaskar. (FBI).
 " *TETRASPERMA* Roxb.* Dras Valley (Hend.).
 " *OXYCARPA* Anderss.*† Kangi (Meebold).

JUGLANDACEAE

- JUGLANS REGIA* L. Cultivated in Indus Valley.

BETULACEAE

- BETULA UTILIS* D. Don. Not noticed beyond the Zoji Pass (R.R.S.), (Hend.).

ULMACEAE

- ULMUS PARVIFOLIA* Jacq. Saspola (R.R.S.), Nubra (FBI).

URTICACEAE

- URTICA HYPERBOREA* Jacq. Lachalung, Kargil?
 " *DIOICA* L.* "Western Tibet" (FBI).
PILEA PEPLOIDES Hook. & Arn.* Zaskar (FBI).
PARIETARIA DEBILIS Forst.* "Western Tibet" (FBI).

MORACEAE

- MORUS ALBA* L. Cultivated in the Indus Valley.

SANTALACEAE

- THESIUM HIMALENSE* Royle.* Dras Valley (Hend., under *Th. multicaule* Ledeb.),
 East Kangi (Meebold), "Western Tibet" (FBI).

POLYGONACEAE

- RUMEX ORIENTALIS* Bernh. Nyemo. The fruit is almost free from tubercles and the plant may therefore be *R. aquaticus* L. The same thing, collected by Schlagintweit, is marked "*R. crispus* L. var."
RUMEX ACETOSA L.* Dras (Hend.).
OXYRIA DIGYNA (L.) Hill. Saspola, Baralacha.
RHEUM SPICIFORME Royle. Lachalung La.
 " *TIBETICUM* Meissn. Gya.
 " *WEBBIANUM* Royle.* Kangi (Meebold).
 " *EMODI* Wall.* Kangi (Meebold).
POLYGONUM ISLANDICUM Hook. Gya.
 " *FILICAULE* Wall.* Ladak (FBI).
 " *COGNATUM* Meissn. Dras, Baralacha.
 " *PARONYCHIOIDES* C. A. Mey. Kharbu, Leh?
 " *AVICULARE* L. Fotu La.
 " *TUBULOSUM* Boiss.* "Western Tibet" (FBI), Leh (Meebold).
 " *MOLLIAEFORME* Boiss. Baralacha, very dwarf.
 " *VIVIPARUM* L. Khardong La, Kharbu.
 " *SPHAEROSTACHYUM* Meissn.* "Western Tibet" (FBI).
 " *AMPLEXICAULE* D. Don. Suru.
 " *AFFINE* D. Don. Sapi La, Baralacha.
 " *VACCINIIFOLIUM* Wall.* Ladak (FBI).
 " *LAPATHIFOLIUM* L. Khalotse to Yuru.

† An undetermined species of *Salix* was collected at Rusi La.

POLYGONUM TOMENTOSUM Schrank. Leh (R.R.S.); a specimen of this from Schlagintweit is mixed with *P. Persicaria*.

POLYGONUM PERSICARIA L.* "Western Tibet" (FBI).

" HYDROPIPER EGLANDULOSA Hook. f.* Ladak (FBI).

" POLYSTACHYUM Wall. Suru.

" TORTUOSUM D. Don.* Rupshu, Sapi La, Lachalung.

" SIBIRICUM Laxm. Gya, Himis, Lachalung; very dwarf.

" CONVULVULUS L.* Nubra (FBI), Eastern Kangi (Meebold, as *P. nepalense* Meissn.).

POLYGONUM ALATUM Buch.-Ham. Timisgam.

FAGOPYRUM TATARICUM Gaertn. Leh, etc., cultivated.

" ESCULENTUM Moench.* Weed of cultivated grounds in Ladak (Hend.), Zanskar, etc. (FBI).

CHENOPODIACEAE

CHENOPODIUM ALBUM L. Lachalung, 16,000 ft. alt. A Himis specimen is only 2 in. tall. Ubiquitous.

CHENOPODIUM OPULIFOLIUM Schrad.* "Western Tibet" (FBI).

" HYBRIDUM L.* Ladak (FBI).

" GLAUCUM L.* Ladak (FBI).

" BOTRYS L. Common weed in Indus Valley; Ladak.

" BLITUM Hook. Matayan.

ATRIPLEX HORTENSIS L.* "Western Tibet" (FBI).

" CRASSIFOLIA C. A. Mey. Rachogpa, Fotu La, Kargil.

" ROSEA L. Leh (Hend.), Sassar and Haule (FBI), Rokshin (R.R.S.).

EUROTIA CERATOIDES C. A. Mey. Common, sometimes furnishing the only fuel at high altitudes.

AXYRIS AMARANTHOIDES L.* "Western Tibet" (FBI).

" AMARANTHOIDES HUMIFUSA? Rusi La.

CHENOLEA DIVARICATA Hook. Nyemo; a colonial annual, forming dense, hairy, pyramidal masses in the desert. This may be the *Echinopsilon mollis* of Henderson, which he noted in the Indus Valley.

KOCHIA PROSTRATA Schrad. Dras, Namika, Kargil.

" ODONTOPTERA Schrenk. Saspola, Himis.

CORISPERMUM HYSSOPIFOLIUM L.* "Western Tibet" (FBI).

SUAEDA CORNICULATA Bunge.* "Western Tibet," Parang Valley and Hanle plains (FBI).

SUAEDA MICROSPERMA Ledeb. Ladak, banks of the Indus, Pangong Lake, etc. (FBI); I have immature specimens from Spitug by the Indus that seem to be this.

SALSOLA KALI L. Khalotse to Leh.

" COLLINA Pall. Khalotse to Leh, Tsokar Lake.

HALOXYLON THOMSONI Bunge. Tralsi, Nyemo, Leh.

HALOCHARIS VIOLACEA Bunge. Saspola, Gya, Tralse, Leh?

HALOGETON GLOMERATUS C. A. Mey. Gya, Leh.

CARYOPHYLLACEAE

STELLARIA MEDIA (L.) Cyrill. Leh.

" TIBETICA Kurz.* Trantse Lundo (FBI).

" GRAMINEA L. Common.

" DECUMBENS Edgew. Baralacha.

- STELLARIA GLAUCA With.* Indus Valley (FBI).
 " SUBUMBELLATA Edgew.* Nubra (FBI).
 " SEMIVESTITA Edgew.* Kangi (Meebold).
 CERASTIUM TRIGYNUM Villars. Khardong.
 " VULGATUM L. Zoji to Matayan.
 " VULGATUM TIBETICA Edgew. & Hook. f.* Ladak.
 " VULGATUM NEPALENSE Wall.* Kangi (Meebold).
 SAGINA PROCUMBENS L.* "Western Tibet" (FBI).
 ARENARIA GRIFFITHSII Boiss. Dras Kharbu, Sapi La, Rusi La.
 " KASHMIRICA Edgew.* Kangi (Meebold), "Western Tibet" (FBI).
 " MUSCIFORMIS Wall. Lachalung.
 " FOLIOSA Royle. Sapi.
 " SERPYLLIFOLIA L.* "Western Tibet" (FBI).
 " STRACHEYI Edgew.* Ladak (FBI).
 " HOLOSTEOIDES Edgew. Common in fields.
 THYLACOSPERMUM RUPIFRAGUM Schrenk.* "Alpine Western Tibet" (FBI).
 SILENE VULGARIS (Moench.) Garcke (*S. inflata* Smith). Common in fields.
 " CONOIDEA L.* Moolbeck (Hend.), Leh (Meebold), Ladak (FBI).
 " MOORCROFTIANA Wall. Namika La, Kharbu, Baralacha.
 " TENUIS Willd. Common.
 LYCHNIS APETALA L. Yarungshan, Khardong, Lachalung.
 " HIMALAYENSIS Edgew. Leh, Suru; more than minutely pubescent.
 " NUTANS Benth. Suru.
 " MACRORHIZA Royle. Lachalung.
 GYPSOPHILA SEDIFOLIA Kurz. Zanskar and Dras (FBI); mine is *sine loco*.
 DIANTHUS ANATOLICUS Boiss. Zoji to Matayan, Sapi, Baralacha.
 " DELTOIDES L.* "Western Tibet" (FBI).
 " SEGUIERI Vill. Ladak (FBI).
 " ANGULATUS Royle.* Zanskar (FBI).
 " CRINITUS Sm.* Moolbeck (Hend.), Western Tibet (FBI).
 SAPONARIA VACCARIA L. A common weed in fields.

RANUNCULACEAE

- ISOPYRUM GRANDIFLORUM Fisch. Lachalung.
 AQUILEGIA VULGARIS VISCOSA Hook. f. & Thoms. Kargil, Lachalung.
 " VULGARIS PYRENAICA (DC.) Hook. f. & Thoms. Moolbeck, Sapi La.
 DELPHINIUM BRUNONIANUM Royle. Khardong, Takilung La, Yarungshan, etc.
 " CASHMIRIANUM Royle. Sapi La.
 ACONITUM HETEROPHYLLUM Wall. Suru to Sirimarg, Yarungshan.
 " NAPELLUS MULTIFIDUM (Royle) Hook. f. & Thoms. Suru, Sapi La.
 ANEMONE RUPICOLA Cambess. Rusi La, Zoji to Matayan.
 " RIVULARIS Buch.-Ham. Timisgam.
 " ALBANA Stev.* "Western Tibet" (FBI).
 CLEMATIS ORIENTALIS ACUTIFOLIA Hook. f. & Thoms. Common in the Indus Valley;
 one collection near Saspola Drokpo had almost black flowers.
 OXYGRAPHIS POLYPETALA Hook. f. & Thoms.* Kangi La (Meebold), Dras (Duthie,
 etc.).
 RANUNCULUS CYMBALARIA Pursh. Common; the leaves are smaller and less lobed
 than American specimens.

- RANUNCULUS HYPERBOREUS NATANS Regel. Khardong.
 " HYPERBOREUS MULTIFIDUS Hook. f. & Thoms.* Ladak (FBI).
 " PULCHELLUS C. A. Mey. Common at high levels.
 " LAETUS Wall.* Near Zoji (Hend.), "Western Tibet" (FBI).
 " AFFINIS R. Br. Kharbu.
 " HIRTELLUS Royle. Common, especially along the great range of the Himalaya.
 RANUNCULUS LOBATUS Jacquem.* Ladak (Hend.), Zaskar (FBI).
 " AQUATILIS TRICHOPHYLLUS Gray. Matayan.
 THALICTRUM MINUS L. To Matayan.
 " MINUS FOETIDUM (L.) Hook. f. & Thoms. Common in villages.
 " ALPINUM L.* "Western Tibet" (FBI).
 " PLATYCARPUM Hook. f. & Thoms.* Nubra (FBI).
 " RUTAEFOLIUM Hook. f. & Thoms.* "Western Tibet" (FBI).
 ADONIS CHRYSOCANTHUS Hook. f. & Thoms. Matayan.

BERBERIDACEAE

- PODOPHYLLUM EMODI Wall. Suru.
 BERBERIS VULGARIS L. Near Kargil (Hend.), "Western Tibet" (FBI).
 " ULICINA Hook. f. & Thoms.* Nubra (FBI).

PAPAVERACEAE

- HYPECOUM LEPTOCARPUM Hook. f. & Thoms. Lachalung La.
 MECONOPSIS ACULEATA Royle. Baralacha Pass and along "great range."
 PAPAVER NUDICAULE L. Khardong La.
 CORYDALIS TIBETICA Hook. f. & Thoms. Back of Leh.
 " MOORCROFTIANA Wall.* Guge (FBI).
 " GORTSCHAKOVII Schrenk. Yarungshan.
 " STRICTA Steph. Lachalung.
 " FLABELLATA Edgew. Numika La, Kargil to Moolbeck.
 " ADIANTIFOLIA Hook. f. & Thoms.* Zaskar (FBI).
 " CRASSIFOLIA Royle. Rachogpa? (R.R.S.), Dras (Duthie).
 " MEIFOLIA Wall. Baralacha Pass.

CRUCIFERAE

- LEPIDIUM LATIFOLIUM L. Namika La, Saspola, Spituk, etc.; Thellung notes several varieties of this in Ladak.
 LEPIDIUM CAPITATUM Hook. f. & Thoms. Lachalung La.
 " APETALUM Willd. A species close to the above, Gya, "Western Tibet" (FBI, under *L. ruderale* L.).
 DILOPHIA SALSA Thoms.* "Western Tibet" (FBI).
 THLASPI ARVENSE L. Sapi La, Kharbu, Nyemo, Shergol.
 " ALPESTRE L. Matayan, Spituk.
 COCHLEARIA SCAPIFLORA Hook. f. & Thoms.* Masimik La (Hend.).
 SISYMBRIUM MOLLISSIMUM C. A. Mey. Leh.
 " HUMILE C. A. Mey.* (*Braya humilis* Robinson). Chang La (Hend.), Kangi (Meebold), "Western Tibet" (FBI).
 SISYMBRIUM MINUTIFLORUM Hook. f. & Thoms.* Zaskar (FBI).
 " SOPHIA L.* Leh, Nyemo.
 " COLUMNAE Jacquem. Namika La, Gya.
 " THALIANUM (L.) J. Gay.

- TAUSCHERIA LASIOCARPA DC.* "Western Tibet" (FBI).
 BRASSICA NAPUS L. Sometimes very dwarf; Spituk, Khalotse to Yuru. It is probable that other species of *Brassica* occur, such as *B. nigra* (L.) Koch and *B. juncea* (L.) Coss.
 CRAMBE CORDIFOLIA Stev.* "Western Tibet" (FBI).
 BARBAREA VULGARIS R. Br.* Dras (Hend.), "Western Tibet" (FBI).
 CARDAMINE MACROPHYLLA LOBATA Hook. f. & Thoms.* "Western Tibet" (FBI).
 CAPSELLA ELLIPTICA C. A. Mey.* Leh (Meebold), "Western Tibet" (FBI).
 " THOMSONI Hook. f.* Ladak, Nubra (FBI).
 DRABA GLACIALIS Adams. Rusi La.
 " ALPINA L. Yarungshan, Sapi?
 " INCANA L.* "Western Tibet" (FBI).
 " LASIOPHYLLA Royle. Baralacha Pass.
 " FLADNIZENSIS Wulf.* Leh, Kangi (Meebold), "Western Tibet" (FBI).
 " FLADNIZENSIS HOMOTRICHA (Ledeb.) Hook. f. & Thoms. Nubra (FBI).
 " TIBETICA THOMSONI Hook. f. & Thoms.† Zanskar (FBI).
 ARABIS TIBETICA Hook. f. & Thoms. Lachalung.
 " GLANDULOSA Kar. & Kir.* Near Ladak (FBI).
 " GLABRA (L.) Bernh.* Leh (Meebold).
 " ALPINA L. Zoji La (Hend.).
 ERYSIMUM ODORATUM Ehrh. Zoji to Matayan.
 " HIERACIFOLIUM L.* Dras Valley (Hend., under *E. strictum* Gaertn.).
 CHEIRANTHUS HIMALAYENSIS Cambess.* Kangi La (Meebold), "Western Tibet" (FBI).
 CHEIRANTHUS STEWARTII T. Anders.* Near Ladak (FBI).
 " ALBIFLORUS T. Anders.* Zanskar (FBI).
 ALYSSUM CANESCENS DC. Tsokar Lake.
 BRAYA ALPINA Sternb. & Hoppe. Rokshin.
 " UNIFLORA Hook. f. & Thoms.* Nubra (FBI).
 " TIBETICA Hook. f. & Thoms.* "Western Tibet" (FBI).
 " ROSEA Bunge.* "Western Tibet" (FBI), Leh (Meebold).
 ATELANTHERA PERPUSILLA Hook. f. & Thoms.* Zanskar (FBI).
 MALCOLMIA AFRICANA R. Br.* Ladak (J.L.S.), "Western Tibet" (FBI).
 EUCLIDIUM SYRIACUM R. Br.* East Kangi (Meebold).
 MATTHIOLA ODORATISSIMA R. Br. Near Leh, to Kargil.
 CHORISPORA SABULOSA Cambess. Suru, Zoji to Matayan.
 CHRISTOLEA CRASSIFOLIA Cambess. Common on high dry passes such as the Fotu, Namika and Lachalung.
 PARRYA EXSCAPA C. A. Mey.* "Western Tibet" (FBI).
 " MACROCARPA R. Br.* Alpine region of Western Tibet (FBI).
 " LANUGINOSA Hook. f. & Thoms.* Gugi (FBI); probably not Ladak.
 CONRINGIA PLANISILIQUA Fisch. & Mey. Saspola.

CAPPARIDACEAE

CAPPARIS SPINOSA L. Khalotse.

† An undetermined species of *Draba*, close to *D. incana* but with the fruit not hairy, was collected at Rokshin and Yarungshan; a second undetermined species, probably undescribed, was likewise found at Yarungshan.

CRASSULACEAE

- SEDUM RHODIOLA DC. Dras, Suru, Rusi La, Baralacha.
 " TILLAEOIDES Duthie? Khardong.
 " QUADRIFIDUM Pall.* Leh oasis (Meebold).
 " ASIATICUM Spreng. Suru, Sirimarg.
 " EWERSII Ledeb. Sapi La, Suru to Sirimarg, Khalotse to Yuru.
 " TIBETICUM STRACHEYI Hook. f. & Thoms. Common at high altitudes; Rupshu, Suru and Ladak.
 SEMPERVIVUM ACUMINATUM Jacquem. Common.

SAXIFRAGACEAE

- SAXIFRAGA SIBIRICA L. Fotu La, Baralache Matayan.
 " CERNUA L. Yarungshan.
 " HIRCULUS L. "Western Tibet" (FBI), the typical form and varieties.
 " HIRCULUS INDICA C. B. Clarke. Rokshin, Rusi La, Yarungshan, Khardong.
 SAXIFRAGA JACQUEMONTIANA Decne. Yarungshan.
 " RAMULOSA Wall.* Kangi (Meebold).
 " FLAGELLARIS Willd. Khardong La, Rusi La, Yarungshan.
 " FLAGELLARIS MUCRONULATA (Royle) C. B. Clarke. Zoji to Matayan, Moolbeck.
 SAXIFRAGA OPPOSITIFOLIA L.* "Western Tibet" (FBI).
 " STRACHEYI Hook. f. & Thoms. Sapi La.
 PARNASSIA OVATA Ledeb. Kharbu, Gya.
 " PALUSTRIS L.* "Western Tibet" (FBI); probably from Skardo.
 RIBES ORIENTALE Desf. Dras, Dras to Kharbu, Barso Valley.
 " GROSSULARIA L.*

ROSACEAE

- COTONEASTER VULGARIS Lindl.* "Western Tibet" (FBI).
 " NUMMULARIA Fisch. & Mey. Near Kargil.
 " ACUMINATA Lindl. Eastern Kangi (Meebold).
 PYRUS MALUS L. Cultivated in Ladak.
 " COMMUNIS L. "Western Tibet" (FBI); rare in Ladak, if present at all.
 RUBUS SAXATILIS L.* Dras (FBI).
 POTENTILLA SIBBALDI Hall. f. (*Sibbaldia procumbens* L.). Suru to Sirimarg.
 " TETRANDRA Hook. f. Lachalung, back of Leh.
 " FRUTICOSA L. Ladak, Baralacha; not the typical American *P. fruticosa*.
 POTENTILLA FRUTICOSA OCHREATA (Lindl.) Lehm. Rachogpa.
 " FRUTICOSA INGLISII (Royle) Hook. f. Yarungshan Pass.
 " FRUTICOSA PUMILA Hook. f. Ladak (place lost), Kangi (Meebold).
 " SALESOVII Steph.* Ladak (J.L.S.), Eastern Kangi (Meebold), "Western Tibet" (FBI).
 POTENTILLA AMBIGUA Cambess. Zingzingbar, Rupshu.
 " ANSERINA L. Leh, Timisgam, Fotu La.
 " BIFURCA L. Common.
 " MULTIFIDA L. Common; the typical form and varieties.
 " SERICEA L. Common.
 " CURVISETA Hook. f.* Kangi (Meebold).

- POTENTILLA ARGYOPHYLLA Wall. Matayan, Baralacha?
 " ARGYOPHYLLA LEUCOCHROA (Lindl.) Hook. f. Baralacha, Khardong.
 " ATROSANGUINEA Lodd. Zoji.
 " GELIDA C. A. Mey.* "Western Tibet" (FBI).
 " NIVEA L. "Western Tibet" (FBI).
 CHAMAERHODOS SABULOSA Bunge.* "Western Tibet" (FBI).
 ROSA EGLANTERIA L. Zoji to Matayan, Kharbu, Himis Shukpa; some of the
 flowers are double.
 ROSA WEBBIANA Wall. Common; large and very handsome, often covering arid
 hillsides with pink.
 PRUNUS ARMENIACA L. The chief fruit tree in Ladak up to 11,000 ft. alt.
 " TOMENTOSA Thunb. Saspola.
 " PERSICA (L.) Stokes.* Ladak (Vigne, J.L.S.).

LEGUMINOSEAE

- SOPHORA MOORCROFTIANA Benth.* Ladak (FBI).
 " ALOPECUROIDES L.* "Western Tibet" (FBI).
 THERMOPSIS INFLATA Cambess. Rusi La.
 TRIGONELLA EMODI Benth. Himis Shupko.
 " CORNICULATA L.* Dras (Hend.), Ladak (FBI).
 TRIFOLIUM PRATENSE L.*
 MEDICAGO FALCATA L. Common in villages.
 " SATIVA L. Cultivated.
 " LUPULINA L. Matayan, Leh, Gya.
 MELILOTUS OFFICINALIS (L.) Lam. Common in villages.
 " ALBA Desr.* Saspola? (R.R.S.), Nubra, Ladak (FBI).
 COLUTEA ARBORESCENS NEPALENSIS (Sims) Baker.* Ladak (Brandis).
 CARAGANA PYGMEA DC. Common from 12,000 to nearly 17,000 ft. alt. Its thick
 woody roots and thorny stems furnish the only fuel for travellers in many places.
 Especially common in Rupshu.
 CARAGANA CUNEATA Baker.* Ladak (FBI), Leh (Meebold).
 ASTRAGALUS HEYDEI Baker.* Tsokar Lake (FBI).
 " TRIBULIFOLIUS Benth.* Hanle and Rupshu (FBI).
 " FALCONERI Bunge.* Kangi (Meebold), "Western Tibet" (FBI).
 " ADESMIAEFOLIUS Benth. Kargil.
 " OPHIOCARPUS Benth.* Ladak (FBI).
 " GRACILIPES Benth.* Zaskar and Indus Valley (FBI).
 " CONFERTUS Benth.* Ladak (Hend., FBI).
 " TIBETANUS Benth. Sapi La, Gya.
 " STRICTUS R. Grah. Leh, Himis.
 " OXYODON Baker.* Khardong (Meebold).
 " DENSIFLORUS Kar. & Kir.* Leh (Meebold), Ladak (FBI).
 " MELANOSTACHYS Benth. Suru to Sirimarg.
 " HIMALAYANUS Klotzsch. Suru, Matayan to Dras.
 " MUNROI Benth. Moolbeck, Himis Shupko, Khalotse, Namika La. A
 remarkable, densely hairy species with large inflated pods and yellow flowers,
 growing in the open desert.
 ASTRAGALUS MACROPTERUS DC. Kharbu, Namika La.
 " CILIOLATUS Benth.* Dras (Hend.), Ladak (FBI).

- ASTRAGALUS COLUTEOCARPUS Boiss. Dras, Barso Valley.
 " FRIGIDUS (L.) Bunge. Zoji, Suru Sirimarg?
 " RHIZANTHUS Royle.† Matayan, Dras, Khardong, Suru to Sirimarg.
 " WEBBIANUS R. Grah.* "Western Tibet" (FBI).
 " ROYLEANUS Bunge. A. *Candolleanus* Royle,* not Boiss., "Western Tibet" (FBI); I found this species at Amarnath just over the Great Range on the Kashmir side.
 ASTRAGALUS CICERIFOLIUS Royle. Leh.
 " MULTICEPS Wall.* Ladak (FBI).
 " PEDUNCULARIS Royle.* Dras, Zaskar (FBI).
 " SUBULATUS Pall. Kharbu, Matayan, Gya, Sapi La.
 " NIVALIS Kar. & Kir. Fotu La.
 " HYPOGLOTTOIDES Baker.* "Tibetan Himalayas" (FBI).
 " ZANSKARENSIS Benth.* Zaskar (FBI).
 LOTUS CORNICULATUS L. Suru.
 OXYTROPIS LAPPONICA Gaud. Nyemo, Leh, Spitug, Khardong, Lachalung.
 " MOLLIS Royle. To Matayan.
 " Densa Benth. Lachalung.
 " TATARICA Cambess. Dras, Kharku Moolbeck, Lachalung, etc.
 " CACHEMIRICA Cambess. Namika La.
 " MICROPHYLLA DC. Gya, Tsokar, Lachalung.
 " THOMSONI Benth.*‡ Ladak (FBI).
 STRACHEYA TIBETICA Benth.* Pangong Lake (FBI).
 HEDYSARUM MICROCALYX Baker. Suru.
 CICER SONGARICUM Steph. Commonly cultivated.
 VICIA FABA L. Cultivated.
 " TENUIFOLIA Roth. Kharbu.
 ERVUM LENS L. Cultivated in Ladak.
 LATHYRUS SATIVUS L.* In fields (J.L.S., Hend.).
 " ALTAICUS Ledeb. To Matayan, Suru to Wardwan.
 PISUM SATIVUM L. Cultivated in Ladak.

GERANIACEAE

- GERANIUM COLLINUM Steph. Khardong, Sapi?
 " GRANDIFLORUM Edgew.* Kangi (Meebold).
 " PRATENSE L. Kharbu, Himis.
 " SIBIRICUM L.* Ladak (FBI).
 " POLYANTHES Edgew. & Hook. f.* Dras (Duthie).
 ERODIUM STEPHANIANUM Willd.* Ladak (FBI).
 " TIBETANUM Edgew. Gya.
 " CICUTARIUM (L.) L'Her. "Little Tibet" (FBI).
 BIEBERSTEINIA EMODII Jaub. & Spach. (*B. odora* Royle.) Lachalung, Khardong (given by Dr. Schmidt).

LINACEAE

- LINUM PERENNE L. Dras.

† Another species of *Astragalus*, close to *A. rhizanthus* but not matched at Kew, was found at Namika La.

‡ A species of *Oxytropis*, not matched at Kew, was found between Suru and Sirimarg.

ZYGOPHYLLACEAE

- PEGANUM HARMALA L. Himis, Leh, Saspola.
 TRIBULUS TERRESTRIS L. Leh.

EUPHORBIACEAE

- EUPHORBIA TIBETICA Boiss. Kharbu, Himis.
 " THOMSONIANA Boiss. Matayan.
 " MADDENII Boiss.* Ladak (Hend.).

BALSAMINACEAE

- IMPATIENS BRACHYCENTRA Kar. & Kir. Suru to Sirimarg.
 " THOMSONI Hook. f. Suru.

MALVACEAE

- LAVATERA KASHMIRIANA Cambess. Suru.
 MALVA VERTICILLATA L. Leh.

HYPERICACEAE

- HYPERICUM PERFORATUM L. Suru.

TAMARICACEAE

- TAMARIX GALLICA PALLASII (Desv.) Thist.-Dyer.* Ladak (Hend.), "Western Tibet" (FBI).
 MYRICARIA ELEGANS Royel. Common in the thickets along the Indus and tributaries.
 " GERMANICA Desv. In similar situations as the above.
 " GERMANICA PROSTRATA Hook f. & Thoms. Ladak, 16,000 ft. alt. (Hend.)'

VIOLACEAE

- VIOLA KUNAWARENSIS Royle. Near Leh (specimen given by Dr. Schmidt).
 " CINEREA Boiss.* Ladak (Hend.); probably the above.

ELAEAGNACEAE

- HIPPOPHAË RHAMNOIDES L. Common; its spinous branches are much used for hedges.
 HIPPOPHAË SALICIFOLIA D. Don.* Dras (Duthie, 17).
 ELAEAGNUS HORTENSIS Bieb. Leh (specimens given by Dr. Schmidt).

ONAGRACEAE

- EPILOBIUM ROYLEANUM Haussk. Common and very variable.
 " ROSEUM ANAGALLIDIFOLIUM (Lam.) C. B. Clarke.* "Western Tibet" (FBI).
 EPILOBIUM LATIFOLIUM L. Suru-Sirimarg, Rusi La.
 " ANGUSTIFOLIUM L. In the shade of willows; Kharbu, Dras, Sapi River, etc.
 EPILOBIUM MINUTIFLORUM Haussk.* (*E. palustre minimum* C. B. Clarke of FBI).
 Leh, Nubra (Haussknecht).

HALORAGIDACEAE

- HIPPURIS VULGARIS L. Leh.

UMBELLIFERAE

- ERYNGIUM BILLARDIERI Delar.* Ladak (FBI).
 CHAEROPHYLLUM VILLOSUM Wall. Without definite locality (R.R.S.), Dras and Lamayuru (Hend.).
 CHAEROPHYLLUM ACUMINATUM Lindl. Suru.
 TRACHYDIUM ROYLEI Lindl. Rusi La.
 PLEUROSPERMUM HOOKERI THOMSONI C. B. Clarke.* "Western Tibet" (FBI).
 " CANDOLLI Benth.? Yarungshan, Suru-Sirimarg (not mature).
 " STELLATUM LINDLEYANUM (Klotzsch) C. B. Clarke. Lachalung.
 PRANGOS PABULARIA Lindl. Matayan.
 BUPLEURUM FALCATUM L. Zoji to Matayan, Suru.
 " FALCATUM NIGROCARPA (Jacquem.) C. B. Clarke. Fotu La.
 " TENUE Buch.-Ham.* Lamayuru (Hend.).
 PITURANTHOS THOMSONI C. B. Clarke.* "Western Tibet" (FBI).
 CARUM CARVI L. Leh, in the village.
 PIMPINELLA SAXIFRAGA DISSECTIFOLIA C. B. Clarke. "Western Tibet" (FBI), Gya? (R.R.S.).
 LIGUSTICUM THOMSONI C. B. Clarke. Common.
 FERULA JAESCHKEANA Vatke. Matayan.
 HERACLEUM THOMSONI C. B. Clarke.* Ladak (FBI).
 " THOMSONI GLABRIOR C. B. Clarke.* Dras (Hend.).
 " PINNATUM C. B. Clarke. Moolbeck, Himis?
 " CANDICANS Wall. Zoji to Matayan, Dras?

PRIMULACEAE

- PRIMULA DENTICULATA CAPITATA (Hook.)* Zoji La (Hend.).
 " FARINOSA L.* "Western Tibet" (FBI).
 " HEYDEI Watt.* "Western Tibet" (FBI).
 " SIBIRICA Jacq. Fotu La, Lachalung, Chamba Kharbu.
 " BREVICALYX DC. Kangi (Meebold).
 " INVOLUCRATA Wall.* "Western Tibet" (FBI).
 " ELLIPTICA Royle. Rupshu to Lahoul (R.R.S.), Ladak (FBI).
 " MEEBOLDII Pax.* Kangi (Meebold).
 " PURPUREA Royle (included under *P. Stuartii* in FBI). Leh (specimens given by Dr. Schmidt), Yarungshan.
 PRIMULA STUARTII Wall.* "Western Tibet" (FBI).
 ANDROSACE ROTUNDIFOLIA GLANDULOSA Hook. f.* "Western Tibet" (FBI).
 " ROTUNDIFOLIA THOMSONI Hook. f.* "Western Tibet" (FBI).
 " SEPTENTRIONALIS L. Spituk.
 " AIZOON Duby.* Dras (Hend.), "Western Tibet" (FBI).
 " SEMPERVIVOIDES Jacquem.* "Western Tibet" (FBI).
 " MICROPHYLLA Hook. f.* "Western Tibet" (FBI).
 " SARMENTOSA Wall.* Ladak (Hend.).
 " SARMENTOSA PRIMULOIDES (Duby) Hook. f. Matayan.
 " CHAMAEJASME Wulf.* Ladak (Hend.).
 " CHAMAEJASME CORONATA Hook. f.* "Western Tibet" (FBI).
 " VILLOSA L. Fotu La, Sapi.
 GLAUX MARITIMA L.* Ladak (Hend.), "Western Tibet" (FBI).

PLUMBAGINACEAE

ACANTHOLIMON LYCOPODIODES Boiss. A remarkable sharp-leaved, tufted plant; common on the passes in Ladak.

STATICE MACRORRHABDOS Boiss.* Ladak (FBI).

OLEACEAE

FRAXINUS EXCELSIOR L.* Ladak (FBI).

GENTIANACEAE

JAESCHKEA LATISEPALA C. B. Clarke.* "Western Tibet" (FBI).

GENTIANA MOORCROFTIANA Griseb. Kharbu, Sapi La, Suru to Sirimarg.

" AUREA L. Kharbu, Sapi La, Moolbeck?

" THOMSONI C. B. Clarke.* Karakorum, Nubra (FBI).

" BOREALIS Bunge.* "Western Tibet" (FBI).

" TENELLA Rottb. Yarungshan, Himis Shupko.

" AQUATICA L. Leh, Himis Shupka, Himis Lachalung La.

" HUMILIS Stev. Fotu La.

" PSEUDO-HUMILIS Burk.* Leh, Himis, Kargil, Rupshu, etc. (7)

" PYGMAEA C. B. Clarke.* Karakorum, Nubra (FBI).

" SQUARROSA Ledeb.* "Western Tibet" (FBI).

" CARINATA Griseb. Yarungshan.

" HUGELII Griseb.* Zanskar (FBI).

" DECUMBENS L. Sapi La.

" SERRATA Gunner. Kharby, Gya, Fotu La.

" SERRATA Stracheyi (C. B. Clarke) comb. nov. (*G. detonsa Stracheyi* C. B. Clarke). Himis Shupka.

GENTIANA LEUCOMELAENA Maxim.* Kangi (Meebold).

PLEUROGYNE CARINTHIACA G. Don. Rusi La, Sapi La.

" THOMSONI C. B. Clarke. Fotu La.

" BRACHYANTHERA C. B. Clarke.* Karakorum (FBI).

SWERTIA CORDATA Wall. "Western Tibet" (FBI).

" PETIOLATA Royle. Rusi La, Sapi La?

HALENIA ELLIPTICA D. Don. Himis Shupka.

APOCYNACEAE

APOCYNUM VENETUM L. Khalotse.

ASCLEPIADACEAE

CYNANCHUM GLAUCUM Wall. Kargil, Saspola.

" ACUTUM L. Namika La.

" HEYDEI Hook. f. Between Saspola and Khalotse. My specimens are from the type locality, and it seems that this may be only a form of *C. acutum* with overlapping basal lobes to the leaves.

CONVOLVULACEAE

CUSCUTA CAPITATA Roxb. Barso Valley, on Galium.

" EUROPAEA L. Indus Valley, up to 11,000 ft. alt. The species which J. L. Stewart reported as common under the name *C. planiflora* Tenore is probably this.

CONVOLVULUS ARVENSIS L. A weed of cultivated land in Ladak.

BORAGINACEAE†

- ACTINOCARYA TIBETICA Benth. Nubra, near Karsar Village (FBI).
 OMPHALODES THOMSONI C. B. Clarke.* Nubra (FBI).
 CYNOGLOSSUM PETIOLATUM A. DC.* Zanskar (FBI).
 " WALLICHII G. Don. Draş, Kharbu? I am following Collett (13) in including *C. denticulatum* G. Don here.
 LINDELOFIA BENTHAMII Hook. f. Leh, Namika La.
 SOLENANTHUS CIRCINATUS Ledeb. Zanskar (FBI).
 PARACARYUM HELIOCARPUM Kern. Matayan to Draş.
 " THOMSONI C. B. Clarke.* Nubra (FBI).
 " HIMALAYENSE C. B. Clarke. Nubra (FBI), without definite locality (R.R.S.).
 PARACARYUM TIBETICUM C. B. Clarke. Himis Shupka, Khalotse to Yuru.
 ECHINOSPERMUM BARBATUM Lehm.* Ladak (Hend.).
 " REDOWSKII Lehm.* Leh (FBI).
 " SEMIGLABRUM Ledeb.* "Western Tibet" (FBI).
 ERITRICHIMUM STRICTUM Decne. Fotu La? Khardong? (R.R.S.), "Western Tibet" (FBI).
 ERITRICHIMUM SPATHULATUM C. B. Clarke.* "Western Tibet" (FBI).
 " TIBETICUM C. B. Clarke.* Ladak (FBI).
 ASPERUGO PROCUMBENS L.* "Western Tibet" and the Karakorums (FBI).
 MICROULA BENTHAMII C. B. Clarke.* "Western Tibet" (FBI).
 LYCOPSIS ARVENSIS L. Kharbu.
 MYOSOTIS SYLVATICA Hoffm. Yarungshan, Spituk? very near *M. alpestris* F. W. Schmidt.
 MERTENSIA ECHIOIDES Benth.* "Western Tibet" (FBI).
 " TIBETICA C. B. Clarke.* Karakorum (FBI).
 LITHOSPERMUM ARVENSE L.* "Western Tibet" (FBI).
 MACROTOMIA BENTHAMII DC.* Kangi (Meebold).
 " PERENNIS Boiss. Draş.
 ARNEBIA TIBETANA Kurz. Saspolu, Nyemo.
 " THOMSONI C. B. Clarke. Ladak.
 ONOSMA ECHIOIDES L. Matayan.
 ROCHELIA STELLULATA Reichb.* Nubra (FBI).
 " RECTIPES Stocks.* Zanskar (FBI).
 " CARDIOSEPALA Bunge.* Nubra (FBI).

LABIATAE

- SCUTELLARIA PROSTRATA Jacquem. Zoji to Matayan, Suru to Wardwan.
 " HEYDEI Hook. f.* Zanskar (FBI), Kangi (Meebold).
 MARRUBIUM LANATUM Benth. Tsokar Lake.
 NEPETA BOTRYOIDES Ait. Rupshu (FBI).
 " LINEARIS Royle. Matayan.
 " THOMSONI Benth.* Hanle (FBI).
 " DISCOLOR Royle. Zoji to Matayan, Khardong La, Rusi La, Nyemo, etc., Suru to Sirimarg; the specimens are rather large and may be near *N. spicata* Benth.

† Failure to get specimens in fruit made determinations of some of the Boraginaceae impossible.

- NEPETA LONGIBRACTEATA* Benth. Lachalung.
 " *GLUTINOSA* Benth. Baralacha.
 " *FLOCCOSA* Benth. Common in the Indus Valley.
 " *LEUCOLAENA* Benth. Dras, Suru, Kharbu.
 " *SALVIAEFOLIA* Royle. Near Kargil. The relationship of the last two should be studied in the field. The dry specimens seem to intergrade.
NEPETA NIVALIS Benth. Lachalung La.
 " *TIBETICA* Benth. Lachalung La.
 " *ERIOSTACHYA* Benth.* Khardong (Meebold).
CALAMINTHA UMBROSA Fisch. & Mey. Zoji to Matayan.
DRACOCEPHALUM HETEROPHYLLUM Benth. Gya, Khardong La, Lachalung.
 " *STAMINEUM* Kar. & Kir.* Ladak (Hend.), "Western Tibet" (FBI).
 " *NUTANS* L. Suru.
PHLOMIS BRACTEOSA Royle. Yarungshan La.
LAMIUM RHOMBOIDEUM Benth.* "Western Tibet" (FBI).
 " *AMPLEXICAULE* L. A weed in cultivated ground.
 " *ALBUM* L. Suru.
STACHYS TIBETICA Vatke. Common in Indus Valley.
PEROWSKIA ABROTANOIDES Kiril. Common in Ladak.
ORIGANUM VULGARE L. Suru.
THYMUS SERPYLLUM L. Dras, Lachalung.
MENTHA SYLVESTRIS L. Common.
 " *ARVENSIS* L.* Ladak, Indus Valley (Hend.).
ELSHOLTZIA DENSE Benth. Suru.
 " *PUSILLA* Benth. Lachalung (FBI, as a variety of *E. eriostachya* Benth.).
 " *CRISTATA* Willd.* "Western Tibet" (FBI).

SOLANACEAE

- LYCIUM RUTHENICUM* Murr. Nyemo, Tralse.
PHYSOCHLAINA PRAEALTA Miers. A common weed.
HYOSCYAMUS PUSILLUS L. Kharbu, Khalotse Himis; a remarkable range, from Egypt to Persia and the Altai.
PHYSALIS ALKEKENGI L.* Burgo (Hend.), probably cultivated.
SOLANUM NIGRUM L. Kargil.
 " *TUBEROSUM* L. Introduced by the missionaries. About the finest tops I have ever seen were in Dr. Schmidt's garden in Leh, 11,500 ft. alt.
NICOTIANA RUSTICA L.* Ladak (J.L.S.).
 " *TABACUM* L.* Dras (Hend.).

SCROPHULARIACEAE

- VERBASCUM THAPSUS* L. Dras to Kharbu, Barso Valley.
SCROPHULARIA LUCIDA L. Zoji, Matayan.
 " *VARIEGATA* Bieb.* Moolbeck (Hend.).
 " *DENTATA* Royle. Kharbu? (R.R.S.), Ladak (FBI).
 " *SCABIOSAEFOLIA* Benth. Sapi La.
MIMULUS STRICTUS Benth.* Indus Valley, Ladak (Hend.).
LANCEA TIBETICA Hook. f. & Thoms. Fotu La, Leh.
LIMOSELLA AQUATICA L.* "Western Tibet" (FBI).
VERONICA DELTIGERA Wall. Matayan to Dras, Suru to Sirimarg.
 " *CILIATA* Fisch.? Rokshin, Nyemo.

VERONICA MACROSTEMON Bunge.* Zaskar (FBI).

" ANAGALLIS-AQUATICA L. Leh.

" BECCABUNGA L.* Ladak (Hend.).

" BILOBA L.* "Western Tibet" (FBI), Eastern Kangi (Meebold).

" LAXA Benth. Zoji to Matayan.

" AGRESTIS L.† "Western Tibet" (FBI).

LAGOTIS GLAUCA J. Gaertn. Rusi La.

" GLOBOSA Hook. f.* "Western Tibet," Therichan Pass (FBI), Kangi La (Meebold).

LEPTORHABDOS BENTHAMIANA Walp.* Dras (FBI).

EUPHRASIA OFFICINALIS L. Himis, Kharbu, Shergol.

PEDICULARIS TENUIROSTRIS Benth. Suru.

" CHEILANTHIFOLIA Schrenk. Himis, Kharbu, Khalotse to Leh.

" MOLLIS Wall.* Nubra (FBI).

" PYCNANTHA Boiss.* Kangi (Meebold).

" BICORNUTA Klotzsch. Suru-Sirimarg.

" SIPHONANTHA D. Don. Kharbu.

" RHINANTHOIDES Schrenk. Dras. It is difficult to separate this species, from the preceding at least when working with dry material. '

PEDICULARIS LONGIFLORA Rudolph (*P. tubiflora* Fisch.). This is an unusually interesting species, with yellow flowers and a very long corolla tube. It is abundant in wet places.

PEDICULARIS DOLICHORRHIZA Schrenk (*P. fissa* Hook. f.). Zoji to Matayan.

" OEDERI Vahl. *P. versicolor* Wahlenb. Lanak La (FBI), Zoji (Hend.).

Like dozens of other plants this is found chiefly on the Indian side of the backbone of the Himalayas and has only scattered stations on the Tibetan side.

OROBANCHACEAE

OROBANCHE CERNUA Loeff.* "Western Tibet" (FBI).

" HANSII Kern. Shergol.

LENTIBULARIACEAE

UTRICULARIA MINOR L.* Nubra (FBI).

PLANTAGINACEAE

PLANTAGO MAJOR L. Shergol.

" TIBETICA Hook. f. & Thoms. Saspola, Gya, Tralse.

" BRACHYPHYLLA Edgew.* "Western Tibet" (FBI), Kangi (Meebold).

RUBIACEAE

GALIUM APARINE L. Leh.

" VERUM L. Zoji to Matayan, Dras, Barso Valley.

" BOREALE L. Zoji, Zoji to Matayan, Sapi La, Barso Valley, Spituk.

" TRICORNE Stokes.* Leh (Hend.), "Western Tibet" (FBI).

" PAUCIFLORUM Bunge. Rachogpa.

RUBIA TIBETICA Hook. Fotu La, Rachogpa.

† An undetermined species of *Veronica* with glandular hairs and very small flowers was collected at Dras.

CAPRIFOLIACEAE

- LONICERA GLAUCA Hook. f. & Thoms. Leh, Sapi La, Lachalung.
 " ASPERIFOLIA Hook. f. & Thoms. Zoji to Matayan, Sapi La.
 " RUPICOLA Hook. f. & Thoms.* "Western Tibet" (FBI).
 " SPINOSA Jacq. Lachalung, Fotu La, Chamba Kharbu.
 " MICROPHYLLA Willd. Sapi La.
 " HETEROPHYLLA Decne. To Matayan.
 " MYRTILLUS Hook. f. & Thoms.* Ladak (Hend.), Kangi (Meebold).
 " CAERULEA L. Zoji La; not the typical form.

VALERIANACEAE

- VALERIANA DIOICA L. Ladak, probably correct but not in fruit; Kashmir to the Karakorum (FBI).
 VALERIANA STRACHEYI C. B. Clarke. Kargil.
 " WALLICHII DC.* Kangi (Meebold).

CAMPANULACEAE

- CAMPANULA LATIFOLIA L. Suru.
 " COLORATA TIBETICA Hook. f. & Thoms. Sapi [La, Kharbu, Saspola, Khalotse to Yuru.
 CAMPANULA ARGYROTRICHA Wall.* Eastern Kangi (Meebold).
 " CASHMIRIANA Royle. Leh, Sapi La, Chamba Kharbu.
 " ARISTATA Wall. Gya, Himis Shupka, Suru to Sirimarg.
 CODONOPSIS OVATA Benth. Moolbeck, Kharbu.

COMPOSITAE

- ASTER HETEROCHAETA C. B. Clarke. Common up to 17,000 ft. alt. and very variable.
 ASTER TIBETICUS Hook. f. Common.
 " ALTAICUS Willd.*† "Western Tibet" (FBI).
 BRACHYACTIS UMBROSA Benth. Gya.
 " ROBUSTA Benth. Leh. May be a large variety of *B. umbrosa*. The pappus is lighter colored than in Thomson's specimens.
 ERIGERON ANDRYALOIDES Benth. Namika La, Fotu La.
 " BELLIDIODES Benth.* Kangi (Meebold).
 " ALPINUS UNIFLORUS Hook. f. Yarungshan La, Leh.
 " MULTICAULIS Wall. (under *E. alpinus* L. in FBI.) Common, especially in the Suru region.
 ERIGERON MULTIRADIATUS Benth. & Hook. f,† Zoji to Matayan.
 BLUMEA BIFOLIATA DC.* Leh (Meebold).
 FILAGO ARVENSIS L.* Dras (FBI).
 GIFOLA GERMANICA (L.) Dumort.*
 ANTENNARIA NANA Hook. f. & Thoms.* Nubra and Shayok Valleys, etc. (FBI).
 LEONTOPODIUM ALPINUM Cass. Very abundant and beautiful in the alpine region.
 ANAPHALIS NUBIGENA DC. Sapi La, Matayan to Dras, Lachalung, near Leh (Dr. Schmidt).

† There is much confusion over the limits of the Himalayan asters and erigerons, as they seem to intergrade. A species of *Erigeron*, apparently undescribed, was collected at Baralacha Pass.

- ANAPHALIS STOLICZKAI C. B. Clarke.* "Western Tibet," 5,000-10,000 ft. alt. (FBI). There is no part of Western Tibet as low as 5,000 ft. Hooker considers the species a state of *A. virgata*.
- ANAPHALIS VIRGATA Thoms. Himis Shukpa, Sapi La, near Kargil.
- " CONTORTA Hook. f.* Dras (Hend.).
- GNAPHALUM STEWARTII C. B. Clarke.* Karakorum (FBI).
- INULA OBTUSIFOLIA Kern. Common in Ladak.
- " FALCONERI Hook. f.* "Western Tibet" (Falconer), Skardu (Clarke).
- " BARBATA Wall. Suru. My specimen seems to match *I. barbata* Wall., No. 2961, a species listed by Clarke (10) but not mentioned in FBI.
- INULA RHIZOCEPHALOIDES C. B. Clarke. Sapi La.
- " ROYLEANA DC.*† Kangi (Meebold).
- CHRYSANthemum TIBETICUM C. B. Clarke. Himis Shupka (specimens viscid), Khalotse to Yuru (specimens not viscid).
- CHRYSANthemum STOLICZKAI C. B. Clarke. Zoji-Matayan; much larger than Thomson's specimens.
- CHRYSANthemum RICHTERIA Benth. Namika La, Leh, Fotu La, Sapi La.
- " INDICUM L.* Ladak (J.L.S.); cultivated.
- TANACETUM FRUTICULOSUM Ledeb. Lachalung.
- " ARTEMISIOIDES Sch. Bip. Shergol Dras, Sapi La.
- " GRACILE Hook. f. & Thoms. Ladak.
- " TOMENTOSUM DC.* (FBI, as *T. Senecionis* J. Gay.) Reported by Stewart as common. This is a more eastern plant and is probably a mistake.
- TANACETUM NANUM C. B. Clarke.* Nubra Valley (FBI).
- " TIBETICUM Hook. f. & Thoms.* Parang and Lanak Passes (FBI), East Kangi (Meebold).
- TANACETUM LONGIFOLIUM Wall.* East Kangi (Meebold).
- ALLARDIA GLABRA Decne. Khardong, Sapi La, Rusi La.
- " VESTITA Hook. f. & Thoms.* Zanskar (FBI).
- " NIVEA Hook. Sapi River; Khardong La.
- " TOMENTOSA Decne. Rusi La, Baralacha.
- " STOLICZKAI C. B. Clarke. Suru to Sirimarg.
- ARTEMISIA SALSOLOIDES Willd. Sapi La.
- " DRACUNCULUS L.* Ladak (Hend.), "Western Tibet" (FBI).
- " DESERTORUM Spreng. Suru? "Western Tibet" (FBI).
- " PARVIFLORA Buch.-Ham. Reported by J. L. Stewart but probably misnamed (not listed from Ladak in FBI).
- ARTEMISIA SCOPARIA Waldst. & Kit. Leh.
- " STRICTA Edgew. "Western Tibet" (FBI).
- " MARITIMA L.* Ladak (FBI).
- " TOURNEFORTIANA Reichb. Shergol.
- " BIENNIS Willd. Leh (Meebold).
- " LACINIATA Willd. Dras and Tankse Valleys (Hend.), Leh? (R.R.S.).
- " SACRORUM Ledeb.* Ladak (J.L.S.), "Western Tibet" (FBI).
- " MOORCROFTIANA Wall. Himis, Shupka.
- " PERSICA Boiss. Dras; immature and possibly *A. maritima*; "Western Tibet" (FBI).
- ARTEMISIA FALCONERI C. B. Clarke.* "Western Tibet" (FBI), probably from Skardo.

† An undetermined species of *Inula* was found in the Barso Valley.

- ARTEMISIA STRACHEYI Hook. f. & Thoms.* Rupshu and Lanak La (FBI).
 " ABSINTHIUM L. Dras.
 " MINOR Jacquem. Tsokar Lake, Lachalung La.
 " SIVERSIANA Willd. Nyemo, Leh, Dras.
 " MACROCEPHALA Jacquem.* "Western Tibet" (FBI).
 " AMYGDALINA Decne.? Suru.
- TUSSILAGO FARFARA L. Zoji, Khalotse to Yuru.
- DORONICUM FALCONERI C. B. Clarke.* Karakorum (FBI).
- SENECIO CHRYSANTHEMOIDES DC. Sapi La, Zoji to Matayan, Matayan to Dias.
 " CORONOPHOLIUS Desf.* Kangi (Meebold).
 " PEDUNCULATUS Edgew. Common in Indus Valley, Ladak.
 " DUBIUS Ledeb. Parang Pass (FBI).
 " ARNICOIDES FRIGIDA Hook. f. "Dwarf Sunflower," one of the prettiest Ladak flowers; found in wet places.
- SENECIO TIBETICUS Hook. f.* Karakorum (FBI).
- CREMANTHODIUM DECAISNEI C. B. Clarke. Rusi La, Yarungshan La.
 " OBLONGATUM C. B. Clarke.* Leh (Meebold).
- WERNERIA NANA (Decne.) Benth. & Hook. f. (*Ligularia nana* Decne.), Rokshin, Lachalung. The involucre is cut more deeply than described.
- WERNERIA NANA AFFINIS C. B. Clarke. Baralacha Pass. Involucral cup cut more than half way down, ligules many nerved and twice as long as the bracts, leaves toothed.
- ECHINOPS CORNIGERUS DC. "Globe Thistle," dry hillsides in Ladak.
 " NIVEUS Wall.* Dras (Hend.).
- ARCTIUM LAPPA L. Near Suru.
- COUSINIA FALCONERI Hook. Fotu La.
- SAUSSUREA SCHULTZII Hook. f. Near Leh (specimens from Dr. Schmidt).
 " BRACTEATA Decne. Lachalung.
 " THOMSONI C. B. Clarke.* Nubra (FBI).
 " SUBULATA C. B. Clarke.* Nubra (FBI).
 " STOLICZKAI C. B. Clarke.* "Western Tibet" (FBI).
 " TARAXIFOLIA Wall. Gya.
 " FALCONERI Hook. f.* Karakorum (FBI).
 " GRAMINIFOLIA Wall.* Ladak (FBI).
 " GLANDULIGERA Sch.-Bip. Lachalung.
 " ELLIPTICA C. B. Clarke.* Karakorum (FBI).
 " JACEA C. B. Clarke. Barso Valley.
 " ALBESCENS Hook. f. & Thoms. Suru.
 " SOROCEPHALA Hook. f. & Thoms. Rusi La, Yarungshan La.
- JURINEA CERATOCARPA Benth. Near Suru.
 " CERATOCARPA DEPRESSA C. B. Clarke. Kharbu, Sapi La.
- CARDUUS NUTANS L.* Ladak (Hend.), Nubra (FBI).
 " THOMSONI Hook. f.* Ladak (FBI).
- TRICHOLEPIS TIBETICA Hook. f. & Thoms.* "Western Tibet" (FBI).
- CENTAUREA DEPRESSA Bieb. Moolbeck.
- CNICUS WALLICHII PLATYLEPIS Hook. f.* Dras (FBI).
 " ARVENSIS (L.) Hoffm. Kargil.
- KOELPINIA LINEARIS Pall. Sapi La.
- TRAGOPOGON PRATENSIS L. Sapi La? "Western Tibet" (FBI).

- TRAGOPOGON PORRIFOLIUS L.* "Western Tibet" (FBI).
 SCORZONERA DIVARICATA Turcz. Dras, Kargil, Himis, Namika La.
 " PURPUREA L. Zoji to Matayan.
 CHONDRILLA GRAMINEA Bieb. Karakorum (FBI).
 TARAXACUM OFFICINALE Weber. Common, very variable and growing almost to the snow line. The Himalayan dandelions could be split up into species much more marked than Dahlstedt's European ones. Some are very hairy, some alpine specimens have white flowers, some are very dwarf.
 TARAXACUM OFFICINALE PARVULUM (Walb.) Hook. f. Common.
 " LEUCANTHUM Ledeb.* Kangi (Meebold).
 SONCHUS ASPER (L.) Hill. Tralsi.
 " OLERACEUS L. Saspola.
 LACTUCA ORIENTALIS Boiss. Himis Shupka.
 " SCARIOLOA L. Suru? (R.R.S.), "Western Tibet" (FBI).
 " SATIVA L.* Cultivated in Ladak (Hend.).
 " UNDULATA Ledeb.* "Western Tibet" (FBI).
 " LONGIFOLIA DC.* Common in Ladak (Hend.); possibly a mistake as Hooker (FBI) does not list the species from Ladak.
 LACTUCA TATARICA C. A. Mey. Without definite locality (R.R.S.), Nutra, Hanle, etc. (FBI).
 LACTUCA DECEPIENS C. B. Clarke. Suru to Sirimarg, Kharbu?
 CREPIS FLEXUOSA Benth. & Hook. f. Himis Shupka.
 " TENUIFOLIA Willd. Khalotse to Yuru.
 " STOLICZKAI C. B. Clarke.* "Western Tibet" and Karakorum (FBI).

TABLE OF ALTITUDES†

Baralacha Pass.	16,200 ft.	Rachogpa.	13,400 ft.
Barso Valley, Suru. . . .	11,000	Rokshin.	15,300
Dras.	10,000	Rusi La.	16,000
Fotu La†.	13,000	Sapi La.	14,500
Gya.	13,000	Saspola.	9,700
Himis.	11,000	Saspola Drokpo.	11,000
Himis Shupka.	11,000	Shergol.	9,000
Kargil.	8,700	Shishpur to Iljook.	11,000
Khalotse.	9,500	Spituk.	10,500
Kharbu.	11,000	Suru.	11,000
Khardong La.	17,600	Suru to Sirimarg. . .	11,000 to 13,700
Lachalung La.	16,600	Timisgam.	11,000
Lamayuru.	11,000	Tralse.	11,000
Leh.	11,500	Tsokar Lake.	15,500
Matayan.	10,500	Yarungshan.	15,500
Moolbeck.	9,000	Zoji La.	11,300
Namika La.	13,000	Zoji to Matayan. . .	11,300 to 10,500
Nyemo.	10,000		

† The plants were gathered very frequently between towns and so altitudes are only approximately correct as applied to the plants.

‡ "La" is Tibetan for Pass.

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